

## Claims

1. Profiled membrane, in particular for use as an insulating layer on walls of buildings, floors and roofs, characterised in that it is provided with a surface having a high degree of reflection in order to increase the thermal transmission resistance.
2. Profiled membrane according to claim 1, characterised in that the surface has a degree of reflection of more than 0,2 (20% reflection), in particular more than 0,35 (35% reflection) or 0,5 (50% reflection).
3. Profiled membrane according to claim 1 or 2, characterised in that it is made of plastics, in particular a pigmented plastics reflecting infrared radiation.
4. Profiled membrane according to one or more of the preceding claims, characterised in that it has a smooth surface.
5. Profiled membrane according to any one of the preceding claims, characterised in that the surface is so designed that it reflects or absorbs electromagnetic radiation.
6. Profiled membrane according to any one of the preceding claims, characterised in that the surface absorbs electromagnetic radiation by at least 5 dB, preferably by at least 10 dB, particularly preferably by at least 15 dB.
7. Profiled membrane according to any one of the preceding claims, characterised in that the surface is provided with a reflective coating.

8. Profiled membrane according to any one of the preceding claims, characterised in that the plastics contains colour pigments, in particular titanium dioxide or metal pigments.
9. Profiled membrane according to any one of the preceding claims, characterised in that the plastics surface of the profiled membrane (3) is coated with metal.
10. Composite panel, in particular a cavity-forming floor panel including
  - a base body and
  - a profiled membrane provided on the base bodycharacterised in that the profiled membrane (3) has the features according to one or more of claims 1 to 9.
11. Composite panel according to claim 10, characterised in that the base body (2) is a chipboard or plywood panel.
12. Composite panel according to one or more of the preceding claims, characterised in that a metal foil or vapour-metallised plastics foil is disposed on the side of the base body (2) facing the profiled membrane (3).
13. Composite panel according to one or more of the preceding claims, characterised in that the base body (2) includes two pairs of parallel edges, two neighbouring edges being provided with coupling elements in the form of a groove and the other two being provided with a tongue, fitting into the groove.
14. Process for the manufacture of a profiled membrane provided with a surface having a degree of reflection of more than 0,2 (20% reflection), in particular more than 0,35 (35% reflection) or 0,5 (50% reflection),

characterised in that a metal-coated, in particular vapour-metallised foil is fed after extrusion towards a membrane made of plastics and is subsequently likewise subjected to the profiles moulding process.

15. Process for thermally insulating a building, in particular for thermally insulating a floor, characterised in that
- first a profiled membrane (3) having a degree of reflection of more than 20%, in particular more than 35% or 50% is arranged on the surface to be insulated, in particular the floor and
  - a base body (2) is subsequently applied to the profiled membrane (3).